

14 NOV 03

STATEMENT OF WORK  
FOR  
LAMINATE, SARANEX, HDPE SCRIM, LDPE COATING

P/N 5-19-11226

Prepared by: James C. Lenth  
Soldier Biological and Chemical Command  
Rock Island Arsenal, IL 309-782-8028

## TABLE OF CONTENTS

SECTION C - STATEMENT OF WORK	3
1. Scope:	3
2. Applicable documents:	3
2.1 Drawings and Documents:	3
3. Requirements:	4
3.1 Material	4
3.2 Physical	4
3.3 Toxicological	4
3.3 Disposition	5
SECTION D - PACKAGING AND MARKING	6

## SECTION C - STATEMENT OF WORK

### 1. Scope:

This SOW is for the procurement of Laminate, Saranex, HDPE Scrim, LDPE Coating.

### 2. Applicable documents:

The following documents are for reference only. In case of conflict between the Statement of Work (SOW) and the cited documents, this SOW takes precedence.

#### 2.1 Drawings and Documents:

5-19-11226 -	Revision H - Laminate, Saranex, HDPE Scrim, LDPE Coating
QAP 5-19-11226 -	Revision D - Quality Assurance Provisions

### 3. Requirements:

#### 3.1 Material:

3.1.1 The Saranex Laminate is to be made per the following description.

3.1.2 Saranex is a five (5) layer material. The first layer is composed of a Low Density Polyethylene (LDPE) material with a thickness of 1.5 +/- 0.2 mil and a weight of 1.0 +/- 0.10 oz/yd<sup>2</sup>. The second layer is composed of a Saranex 14-P Film material with a thickness of 2.0 +/- 0.3 mil and a weight of 1.5 +/- 0.25 oz/yd<sup>2</sup>. The third layer is composed of a Low Density Polyethylene (LDPE) material with a thickness of 1.5 +/- 0.2 mil and a weight of 1.0 +/- 0.10 oz/yd<sup>2</sup>. The fourth layer is composed of a High Density Polyethylene (HDPE) Scrim, 10 +/- 1 X 10 +/- 1 count, natural color material with a thickness of 4.5 +/- 1.1 mil and a weight of 2.3 +/- 0.25 oz/yd<sup>2</sup>. The fifth layer is composed of a Low Density Polyethylene (LDPE) material with a thickness of 1.5 +/- 0.2 mil and a weight of 1.0 +/- 0.10 oz/yd<sup>2</sup>.

#### \*3.2 Physical:

3.2.1 The material will need to meet the following tests. Fabric Weight (oz/yd<sup>2</sup>): 6.0 min, 7.6 max per FED-STD-191-5041; Tensile Grab (lb/in of width): Warp - 100 min, Fill - 100 min per FED-STD-191-5100; Tongue Tear (lbs): Warp - 15 min, Fill - 15 min per FED-STD-191-5134; Elongation (%): Warp - 50 max, Fill - 50 max per FED-STD-191-5100; Resistance to Blocking: 3 rating max per FED-STD-191-5872; Ply Adhesion (lb/in of width): 2.5 Min or film break at 2.5 min per FED-STD-191-5950; Seamability (lb/in of width): Face to Face - 3.0 min, Back to Back - 3.0 min, Face to Back - 3.0 min per FED-STD-191-5960 seams are to be .75 +/- .25 in.; Clarity: Translucent to light (visual inspection).

#### 3.3 Toxicological:

3.3.1 The material must meet the following toxicological tests: a liquid challenge of HD, 100 minutes minimum, and one of thickened GD, 100 minutes minimum in accordance with MIL-STD-282, methods 204 and 206.

### 3.4 Disposition:

- 3.4.1 A test sample of 10 linear Yards with a minimum width of 58 inches for Physical and Toxicological testing is to be delivered to:

ERDEC  
ATTN: SCBRC-ENM-N/JERRY FORD  
BLDG. E-5165  
EDGEWOOD AREA  
ABERDEEN PROVING GROUNDS, MD 21010-5423

- 3.4.2 The test sample shall be appropriately marked, to include the drawing/part number, the contract number, the name of the contractor, and the contract Administration Office. The test sample shall be accompanied by a Request for and Results of Tests (DD Form 1222) shall be marked "FOR FIRST ARTICLE TESTING". Two copies of the DD Form 1222, shall accompany the samples to the test laboratories. Block seventeen (17) of the DD Form 1222 " Send Copy of Tests to" shall be annotated "TACOM-Rock Island Attn: AMSTA-AQ-ARCC, Joyce Klein".

- 3.4.3 All costs associated with the performance of this contract shall be borne by the contractor. These costs shall include, but are not limited to, the cost to produce the sample, first article testing and all transportation and/or shipping. The bidder must contact the ECBC testing laboratories for a cost estimate of the testing, which will be included in the contractors bid. The Test Service Agreement (TSA) can be established after the contract award. Contacts for obtaining cost estimates for Physical and Toxicological testing are as follows:

FOR PHYSICAL TESTING  
MR. JERALD FORD AMSSB-REN-SN AT TELEPHONE 410-436-2284  
OR EMAIL JERALD.K.FORD@US.ARMY.MIL

AND

FOR toxicological TESTING  
MR. LEE CAMPBELL AMSSB-RRT-AE AT TELEPHONE 410-436-5183 OR EMAIL LEE.E.CAMPBELL@US.ARMY.MIL

- 3.4.4 Immediately after contract award, contractor shall contact MR. RON HINKLE AMSSB-RAS-C AT TELEPHONE 410-436-2031 OR RON.HINKLE@US.ARMY.MIL to establish a TSA for necessary Edgewood Chemical Biological Center testing support.

#### **SECTION D - PACKAGING AND MARKING**

Commercial packaging shall be used.